

IN THE CLAIMS:

The following is a listing of all the claims as they currently stand. Kindly cancel claims 2, 4, 5, 12, 13, 16, 18, 19, 26, 27, and 29-78; amend claims 1, 3, 15, and 17; and add new claims 79-86, as noted below.

1. (Currently amended) A mold for the manufacture of an endovascular graft or section thereof which has a plurality of inflatable circumferential channels and at least one inflatable longitudinal channel or cuff in fluid communication with and connecting the circumferential channels, the mold comprising:

a plurality of mold body portions configured to mate with at least one of the other mold body portions to produce an assembled mold having a main cavity portion with an inside surface contour that matches an outside surface contour of the endovascular graft section ~~with,~~ wherein the assembled mold comprises

- (a) a plurality of circumferential channel cavities that have inside surface contours that match outside surface contours of the plurality of inflatable circumferential channels in an expanded state; and
- (b) at least one longitudinal channel cavity in fluid communication with and connecting the circumferential channel cavities, the longitudinal channel cavity having an inside surface contour that matches an outside surface contour of the at least one inflatable longitudinal channel or cuff in an expanded state.

2. (Canceled)

3. (Currently amended) The mold of claim 1, further comprising at least one cuff cavity that has an inside surface contour that corresponds to an outside surface contour of ~~the~~ an at least one inflatable cuff of the graft section in an expanded state.

4-5. (Canceled)

6. (Original) The mold of claim 1 wherein the mold body portions comprise sintered metal.

7. (Original) The mold of claim 1 further comprising at least one exhaust channel in fluid communication with the main cavity portion of the mold and a position outside the mold.

8. (Original) The mold of claim 7 wherein the exhaust channel is disposed on a contact surface of a mold body portion.

9. (Original) The mold of claim 1 wherein the mold body portions comprise aluminum.

10. (Original) The mold of claim 1 wherein the main cavity portion has a length of about 50 to about 300 mm.

11. (Original) The mold of claim 1 wherein the main cavity portion has an inner transverse dimension of about 4 to about 50 mm.

12-13. (Canceled)

14. (Original) The mold of claim 1 further comprising a first tapered portion disposed at a first end of the main cavity portion and a second tapered portion disposed at a second end of the main cavity portion, wherein the first and second tapered portions taper to an increased transverse dimension toward respective first and second ends of the mold.

15. (Currently amended) A mold for manufacture of an endovascular graft or section thereof which has a plurality of inflatable circumferential channels and at least one inflatable longitudinal channel or cuff in fluid communication with and connecting the circumferential channels, the mold comprising:

a first mold body portion and a second mold body portion configured to mate with the first mold body portion to produce an assembled mold having a main cavity portion with an inside surface contour that is configured to correspond to an outside surface contour of the graft section with, wherein the assembled mold comprises

(a) a plurality of circumferential channel cavities that have inside surface contours that match outside surface contours of the plurality of inflatable circumferential channels in an expanded state; and

(b) at least one longitudinal channel cavity in fluid communication with and connecting the circumferential channel cavities, the longitudinal channel cavity having an inside surface contour that matches an outside surface contour of the at least one inflatable longitudinal channel or cuff in an expanded state; and

~~a second mold body portion configured to mate with the first mold body portion having a main cavity portion with an inside surface contour that is configured to correspond to an outside surface contour of the graft section with the at least one inflatable channel or cuff in an expanded state.~~

16. (Canceled)

17. (Currently amended) The mold of claim 15 further comprising at least one cuff cavity that has an inside surface contour that corresponds to an outside surface contour of ~~the~~ an at least one inflatable cuff of the graft section in an expanded state.

18-19. (Canceled)

20. (Original) The mold of claim 15 wherein the mold body portions comprise a sintered metal.

21. (Original) The mold of claim 15 further comprising at least one exhaust channel in fluid communication with the main cavity portion and a position outside the mold.

22. (Original) The mold of claim 15 wherein the exhaust channel is disposed on a contact surface of the mold body portion.

23. (Original) The mold of claim 15 wherein the mold body portions comprise aluminum.

24. (Original) The mold of claim 15 wherein the main cavity portion has a length of about 50 to about 300 mm.

25. (Original) The mold of claim 15 wherein the main cavity portion has an inner transverse dimension of about 5 to about 50 mm.

26-27. (Canceled)

28. (Original) The mold of claim 15 further comprising a first tapered portion disposed at a first end of the main cavity portion and a second tapered portion disposed at a second end of the main cavity portion.

29-78. (Canceled)

79. (New) A mold for the manufacture of an endovascular graft or section thereof which has a plurality of inflatable circumferential channels and at least one inflatable helical channel in fluid communication with the circumferential channels, comprising:

a plurality of mold body portions configured to mate with at least one of the other mold body portions to produce an assembled mold having a main cavity portion with an inside surface contour that matches an outside surface contour of the endovascular graft section, wherein the assembled mold comprises

- (a) a plurality of circumferential channel cavities that have inside surface contours that match outside surface contours of the plurality of inflatable circumferential channels in an expanded state; and
- (b) at least one helical channel cavity in fluid communication with the circumferential channel cavities, the helical channel cavity having an inside surface contour that matches an outside surface contour of the at least one inflatable helical channel in an expanded state.

80. (New) The mold of claim 79, further comprising at least one cuff cavity that has an inside surface contour that corresponds to an outside surface contour of an at least one inflatable cuff of the graft section in an expanded state.

81. (New) The mold of claim 79, further comprising at least one exhaust channel in fluid communication with the main cavity portion of the mold and a position outside the mold.

82. (New) The mold of claim 79, further comprising a first tapered portion disposed at a first end of the main cavity portion and a second tapered portion disposed at a second end of the main cavity portion, wherein the first and second tapered portions taper to an increased transverse dimension toward respective first and second ends of the mold.

83. (New) A mold for the manufacture of an endovascular graft or section thereof which has a plurality of inflatable circumferential channels and at least one inflatable helical channel in fluid communication with the circumferential channels, comprising:

a first mold body portion and a second mold body portion configured to mate with the first mold body portion to produce an assembled mold having a main cavity portion with an inside surface contour that is configured to correspond to an outside surface contour of the graft section, wherein the assembled mold comprises

- (a) a plurality of circumferential channel cavities that have inside surface contours that match outside surface contours of the plurality of inflatable circumferential channels in an expanded state; and
- (b) at least one helical channel cavity in fluid communication with the circumferential channel cavities, the helical channel cavity having an inside surface contour that matches an outside surface contour of the at least one inflatable helical channel in an expanded state.

84. (New) The mold of claim 83, further comprising at least one cuff cavity that has an inside surface contour that corresponds to an outside surface contour of an at least one inflatable cuff of the graft section in an expanded state.

85. (New) The mold of claim 83, further comprising at least one exhaust channel in fluid communication with the main cavity portion of the mold and a position outside the mold.

86. (New) The mold of claim 83, further comprising a first tapered portion disposed at a first end of the main cavity portion and a second tapered portion disposed at a second end of the main cavity portion, wherein the first and second tapered portions taper to an increased transverse dimension toward respective first and second ends of the mold.